Business Question and Visualization Report

Date	19 March 2025
Team ID	LTVIP2025TMID26675
Project Name	visualization tool for electric vehicle charge and range analysis
Maximum Marks	5 Marks

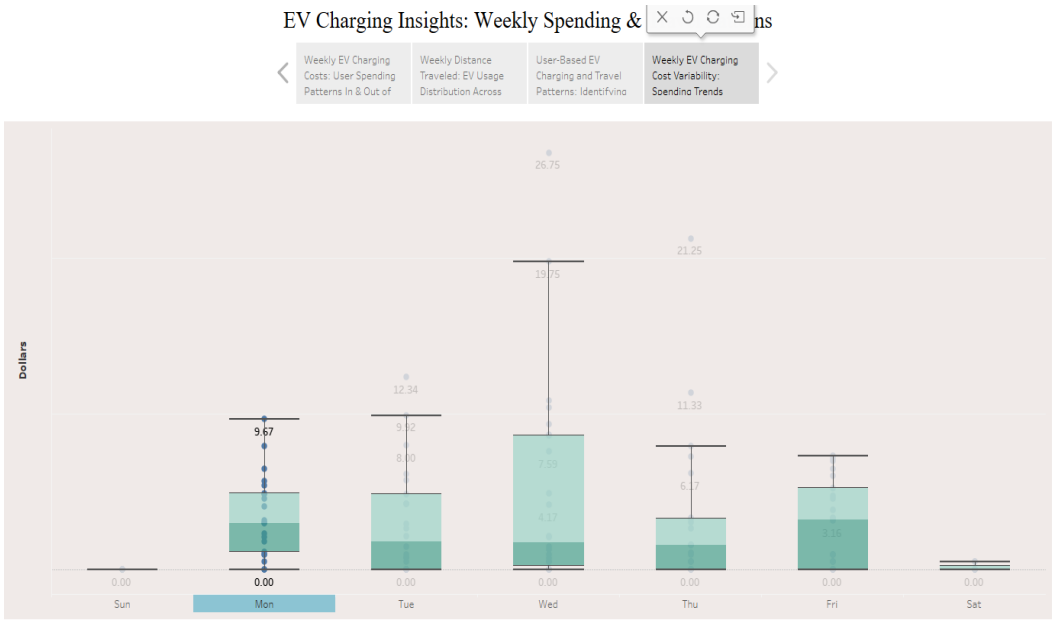
Visualization development refers to the process of creating graphical representations of data to facilitate understanding, analysis, and decision-making. The goal is to transform complex datasets into visual formats that are easy to interpret, enabling users to gain insights and make informed decisions. Visualization development involves selecting appropriate visual elements, designing layouts, and using interactive features to enhance the user experience. This process is commonly associated with data visualization tools and platforms, and it plays a crucial role in business intelligence, analytics, and reporting

Business Questions and Visualisation

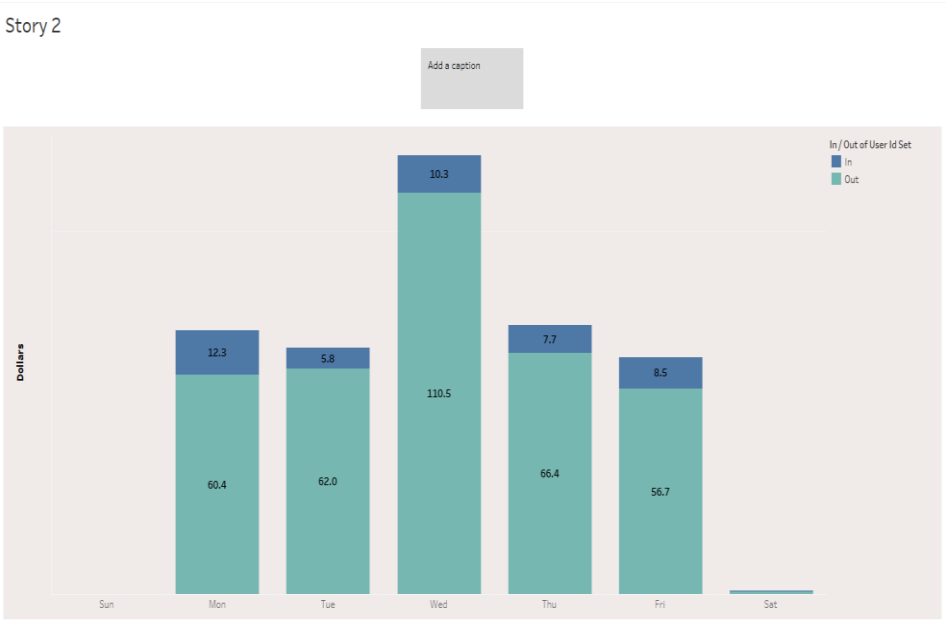
The process involves defining specific business questions to guide the creation of meaningful and actionable visualizations in Tableau. Well-framed questions help in identifying key metrics, selecting relevant data, and building visualisation that provide insights.

Sample

- **On which weekdays are the highest and lowest amounts of dollars spent?**
- *Visualization*: **Dollar Distribution by weekday.**
- *Screenshot of visualisation*

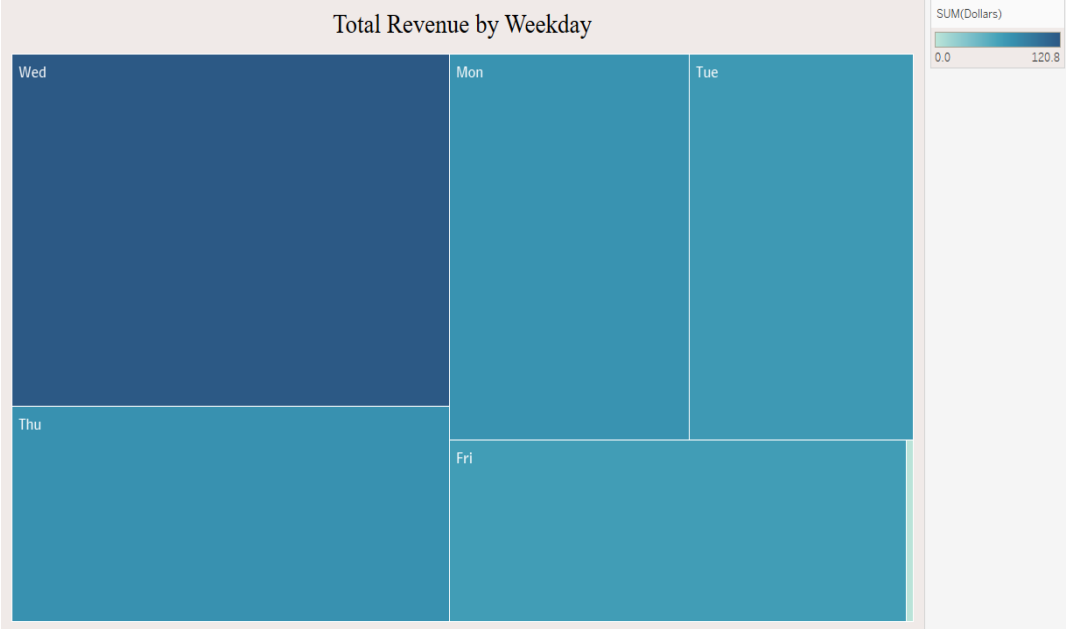


- **On which day of the week do transactions (In/Out) generate the highest and lowest revenue?**
- *Visualization* : **Weekly Dollar Trends (in/out transactions)**
- *Screenshot of visualisation*

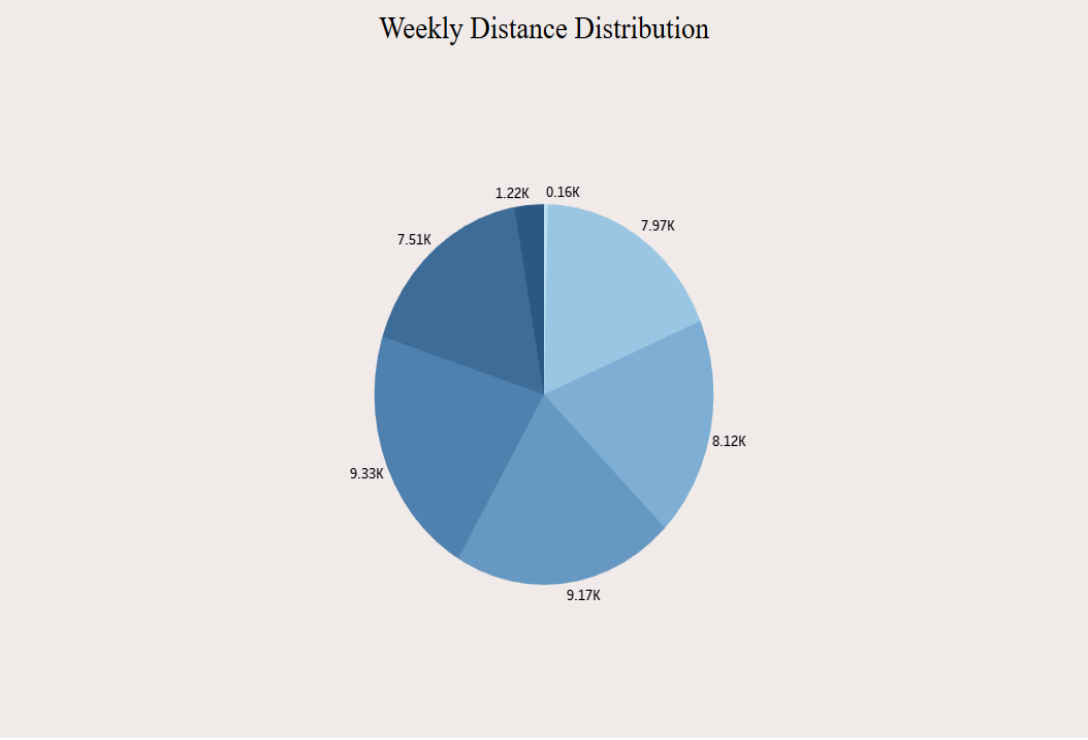


- ***Which weekday contributes the most and least to overall revenue?***

- *Visualization*: **Weekly Revenue Distribution**
- *Screenshot of visualisation*

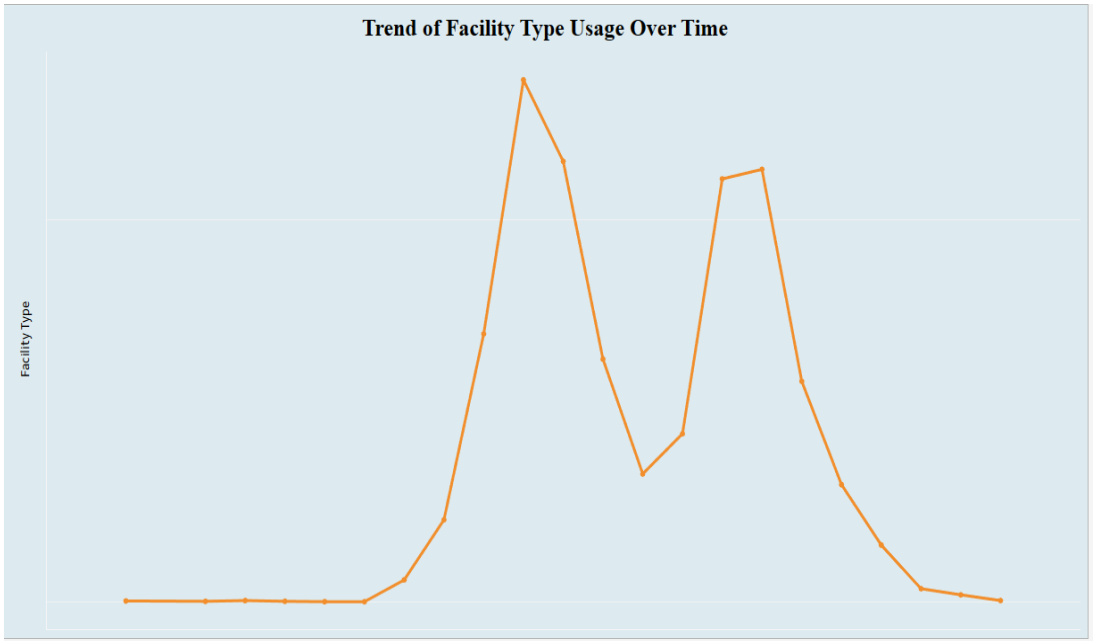


- **On which day of the week is the highest and lowest travel distance recorded?**
- Visualization**: Weekly Distance Distribution**
- Screenshot of visualization

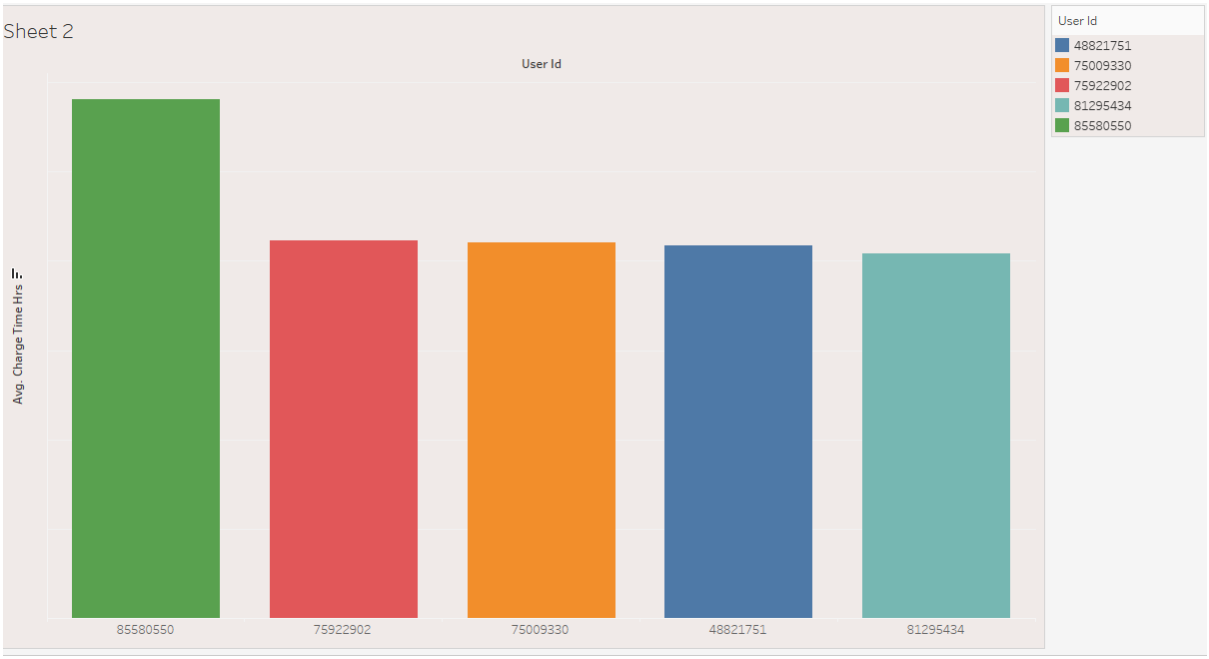


- **On which days does facility usage peak, and what trends can be observed over time?**
- Visualization**: Daily Trend of Facility Usage**

- Screenshot of visualization

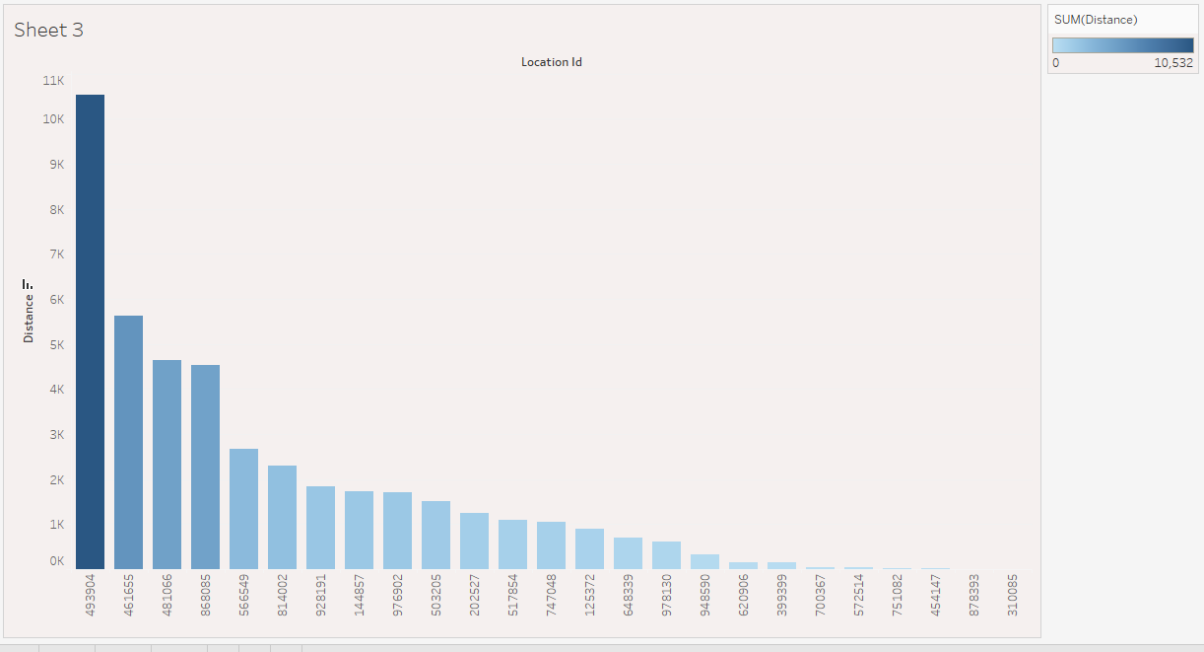


- **Which users have the highest average charging time, and how does charging time vary among different users?**
- *Visualization* : **Average Charging Time per User**
- *Screenshot of visualization* :



- **How do charging times, facility usage, and travel distances vary across users and locations?**
- *Visualization* : **Electric Vehicle Charging and Usage Analysis**

- *Screenshot of visualization*



Which users have traveled the most distance, and how does travel distribution vary among users?

- *Visualization* : **EV User Travel Analysis**
- *Screenshot of visualization* :